Rangeland Study Guide



Key Topics

- Basic rangeland knowledge, to include: identification of state grass, plant I. D. and definitions, importance of rangelands in Montana.
- Range Ecology Processes definition of ecological sites (soil plant relationships), ecological processes (energy flow, nutrient cycle, water cycle and plant succession).
- Rangeland Management stocking rates/carrying capacity, general types of grazing systems, improvement practices (fencing and water developments), wetland, riparian and upland communities.
- Basic knowledge of livestock and wildlife interactions, forage preferences, forage overlap, and habitat requirements.

Learning Objectives

- 1. Define rangeland, % of state encompassed by rangeland, importance of rangelands.
- 2. Identify state grasses of Montana, differentiate between plant types (grass, forb, shrub, and trees), identify parts of a grass and/or grass-like species.
- 3. Define rangeland ecological sites, understand ecological process, understanding of all definitions inclusion to all key topic areas.
- 4. Understanding of basic rangeland management concepts, i.e. grazing systems, stocking rates, and rangeland improvements.

- 5. Understanding of Best Management Practices (BMPs) on rangeland and how different communities (wetland, riparian, and upland areas) interact.
- 6. Recognize different classes of livestock and understand their interaction with wildlife species.

Publications

- 1. RANGELAND MANAGEMENT PRINCIPALS AND PRACTICES, Jerry I. Holechek, Rex D. Pieper, Carlton H. Herbel; copyright 1989, Prentice-Hall INC.
- 2. Best Management Practices for Grazing, publication DNRC, 1999, 1625 11th Avenue, Helena, MT 59620
- 3. How to Identify Plants, H. D. Harrington, L. W. Durrell; copyright 1957 may be current update.
- 4. Rangelands, Society for Range Management (SRM), 445 Union Blvd., Suite 230, Lakeland, CO 80228, non-technical publication.
- 5. Grazing Management, John P. Vallentine, copyright 1990 Academic Press.
- 6. Determining Forage Production and Stocking Rates: A Clipping Procedure for Rangelands (1997), MT9704AG Free
- 7. Tips on Grass Identification Using Vegetative Characteristics (1995), 2C1089 \$1.50
- 8. Range Plants of Montana (1994), EB 122 \$15.00
- 9. Montana Guide to Range Sites, Condition and Initial Stocking Rates (1987), MT8515AG Free
- 10. Monitoring Montana Rangeland (1996), 2B0369 \$2.00
- 11. How to Collect, Press and Mount Plants (1987), MT8359AG Free
- 12. 250 Plants for Range Contests in Montana (1984), MT8402AG Free
- 13. USDA/NRCS Field Offices

National Range and Pasture Handbook

Key Objectives to look for:

Range Definition/Term Definitions